

N-SF57
847238.353

 $n_d = 1.84666$ $v_d = 23.78$ $n_F - n_C = 0.035604$ $n_e = 1.85504$ $v_e = 23.59$ $n_{F'} - n_{C'} = 0.036247$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.78502
$n_{1970.1}$	1970.1	1.79190
$n_{1529.6}$	1529.6	1.80011
$n_{1060.0}$	1060.0	1.81138
n_t	1014.0	1.81296
n_s	852.1	1.82023
n_f	706.5	1.83099
n_C	656.3	1.83650
$n_{C'}$	643.8	1.83807
$n_{632.8}$	632.8	1.83956
n_D	589.3	1.84635
n_d	587.6	1.84666
n_e	546.1	1.85504
n_F	486.1	1.87210
$n_{F'}$	480.0	1.87432
n_g	435.8	1.89423
n_h	404.7	1.91440
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.87543831
B_2	0.373757490
B_3	2.300017970
C_1	0.01417495180
C_2	0.0640509927
C_3	177.3897950

Constants of Formula for dn/dT	
D_0	-4.51E-06
D_1	8.73E-09
D_2	-1.64E-11
E_0	1.07E-06
E_1	1.57E-09
λ_{TK} [μm]	0.295

Temperature Coefficients of the Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[°C]	1060.0	e	g	1060.0	e	g
-40/-20	-0.5	1.7	4.9	-2.9	-0.8	2.3
+20/+40	-0.5	2.2	6.0	-2.1	0.6	4.3
+60/+80	-0.4	2.6	6.9	-1.6	1.3	5.6

Internal Transmittance τ_i		
λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.810	0.580
2325	0.840	0.640
1970	0.956	0.890
1530	0.992	0.980
1060	0.999	0.997
700	0.991	0.977
660	0.987	0.969
620	0.988	0.971
580	0.990	0.975
546	0.986	0.965
500	0.971	0.930
460	0.950	0.880
436	0.920	0.810
420	0.870	0.710
405	0.780	0.540
400	0.730	0.460
390	0.570	0.250
380	0.300	0.050
370	0.060	0.000
365	0.000	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
$\lambda_{80} / \lambda_{50}$	42/37*

(*= $\lambda_{70}/\lambda_{50}$)

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2042
$P_{C,s}$	0.4568
$P_{d,C}$	0.2855
$P_{e,d}$	0.2353
$P_{g,F}$	0.6216
$P_{t,h}$	
$P'_{s,t}$	0.2005
$P'_{C',s}$	0.4922
$P'_{d,C'}$	0.2369
$P'_{e,d}$	0.2311
$P'_{g,F'}$	0.5493
$P'_{i,h}$	

Deviation of Relative Partial Dispersion ΔP from the normal line	
$\Delta P_{C,t}$	0.0032
$\Delta P_{C,s}$	-0.0015
$\Delta P_{F,e}$	0.0033
$\Delta P_{g,F}$	0.0178
$\Delta P_{i,g}$	

Other Properties	
$\alpha_{-30/+70^\circ C}$ [$10^{-6}/K$]	8.5
$\alpha_{+20/+300^\circ C}$ [$10^{-6}/K$]	9.9
T_g [°C]	629
T_{10}^{13} [°C]	616
$T_{10}^{7.6}$ [°C]	716
c_p [J/(g·K)]	0.660
λ [W/(m·K)]	0.990
ρ [g/cm ³]	3.53
E [10^3 N/mm ²]	96
μ	0.260
K [10^{-6} mm ² /N]	2.78
$HK_{0.1/20}$	520
HG	4
Abrasion Aa	175
CR	1
FR	0
SR	1
AR	1
PR	1